BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Teachers Layout, Raghavendra Colony, Balaji layout in Ward No. 11, Vidyaranyapura Sub Division.**

							Estimate Cost:		4900000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
	Desilting of Drains								
	Teachers Layout		2	158.00	0.45	0.35	49.77		
	Main Road Balance		2	81.00	0.45	0.35	25.52		
	Cross Road		2	41.00	0.45	0.35	12.92		
	Defence Layout		2	385.00	0.45	0.35	121.28		
			2	311.00	0.45	0.35	97.97		
			2	45.00	0.45	0.35	14.18		
			2	44.00	0.45	0.35	13.86		
			2	245.00	0.45	0.35	77.18		
	For Road Work								
	Teachers Layout		1	158.00	5.00	0.15	118.50		
	Main Road Balance		1	81.00	5.00	0.15	60.75		
	Cross Road		1	41.00	6.00	0.15	36.90		
	Defence Layout		1	385.00	8.00	0.15	462.00		
			1	311.00	6.50	0.15	303.23		
			1	45.00	7.00	0.15	47.25		
			1	44.00	7.00	0.15	46.20		
			1	190.00	7.00	0.15	199.50		
							1686.98	75.60	**127535.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	Teachers Layout		2	158.00		1.35	426.60		
	Main Road Balance		2	81.00		1.35	218.70		
	Cross Road		2	41.00		1.35	110.70		
	Defence Layout		2	385.00		1.35	1039.50		
			2	311.00		1.35	839.70		
			2	45.00		1.35	121.50		
			2	44.00		1.35	118.80		

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2	190.00		1.35	513.00		
							3388.50	58.32	**197617.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
3	Refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 2				3388.50		
							3388.50	75.60	**256171.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
4	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / I. 20.18 PWD SR - 2014-15**	Cum							
	UGD and Water Line Cutting Portion								
	Teachers Layout		1	158.00	1.00	0.15	23.70		
	Main Road Balance		1	81.00	1.00	0.15	12.15		
	Cross Road		1	41.00	1.00	0.15	6.15		
	Defence Layout		1	385.00	1.00	0.15	57.75		
			1	311.00	1.00	0.15	46.65		
			1	45.00	1.00	0.15	6.75		
			1	44.00	1.00	0.15	6.60		
			1	190.00	1.00	0.15	28.50		
	Road Surface								
	Teachers Layout		1	158.00	5.00	0.15	118.50		
	Main Road Balance		1	81.00	5.00	0.15	60.75		
	Cross Road		1	41.00	6.00	0.15	36.90		
	Defence Layout		1	385.00	8.00	0.15	462.00		
			1	311.00	6.50	0.15	303.23		
			1	45.00	7.00	0.15	47.25		
			1	44.00	7.00	0.15	46.20		
			1	190.00	7.00	0.15	199.50		
							1462.58	1438.56	**2104002.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
	Teachers Layout		1	158.00	5.00		790.00		
	Main Road Balance		1	81.00	5.00		405.00		
	Cross Road		1	41.00	6.00		246.00		
	Defence Layout		1	385.00	8.00		3080.00		
			1	311.00	6.50		2021.50		
			1	45.00	7.00		315.00		
			1	44.00	7.00		308.00		
			1	190.00	7.00		1330.00		
							8495.50	31.32	**266079.00**
	asper Revised Basic Rate	29.00							
	Area Weightage @ 8%	2.32							
	Total	**31.32**							
6	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 159 / Item No. 21.20.2 / PWD SR 2014-15**	Cum							
	Teachers Layout		1	158.00	5.00	0.025	19.75		
	Main Road Balance		1	81.00	5.00	0.025	10.13		
	Cross Road		1	41.00	6.00	0.025	6.15		
	Defence Layout		1	385.00	8.00	0.025	77.00		
			1	311.00	6.50	0.025	50.54		
			1	45.00	7.00	0.025	7.88		
			1	44.00	7.00	0.025	7.70		
			1	190.00	7.00	0.025	33.25		
							212.39	8475.84	**1800162.00**
	as per Revised Basic Rate	7848.00							
	Area Weightage @ 8%	627.84							
	Total	**8475.84**							

(11)

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**1349.58**	73.57	**99288.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.130 PWD SR 2014-15	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
8	Sub Total								**4850854.00**
9	For Third Party QC Charges @ 1%								**48509.00**
10	Miscellaneous and other Charges	L/S							**637.00**
								Total	**4900000.00**
(Rupees Fourty Nine Lakhs Only)									

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 This work included under MLA Grants 2015-16.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Junior Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs 49,00,000
Rupees Fourty Nine lakhs
Under P-3089
Registered as EE ( ) No 3.....9.....
Subject to conditions contained in
enclosed memo EE ( ) No /9/....
Dt Estimate A/S sanctioned
vide No. JC(4)/pal/AS/46/2015-16
dated 20/8/2015 Rs 49,00,000

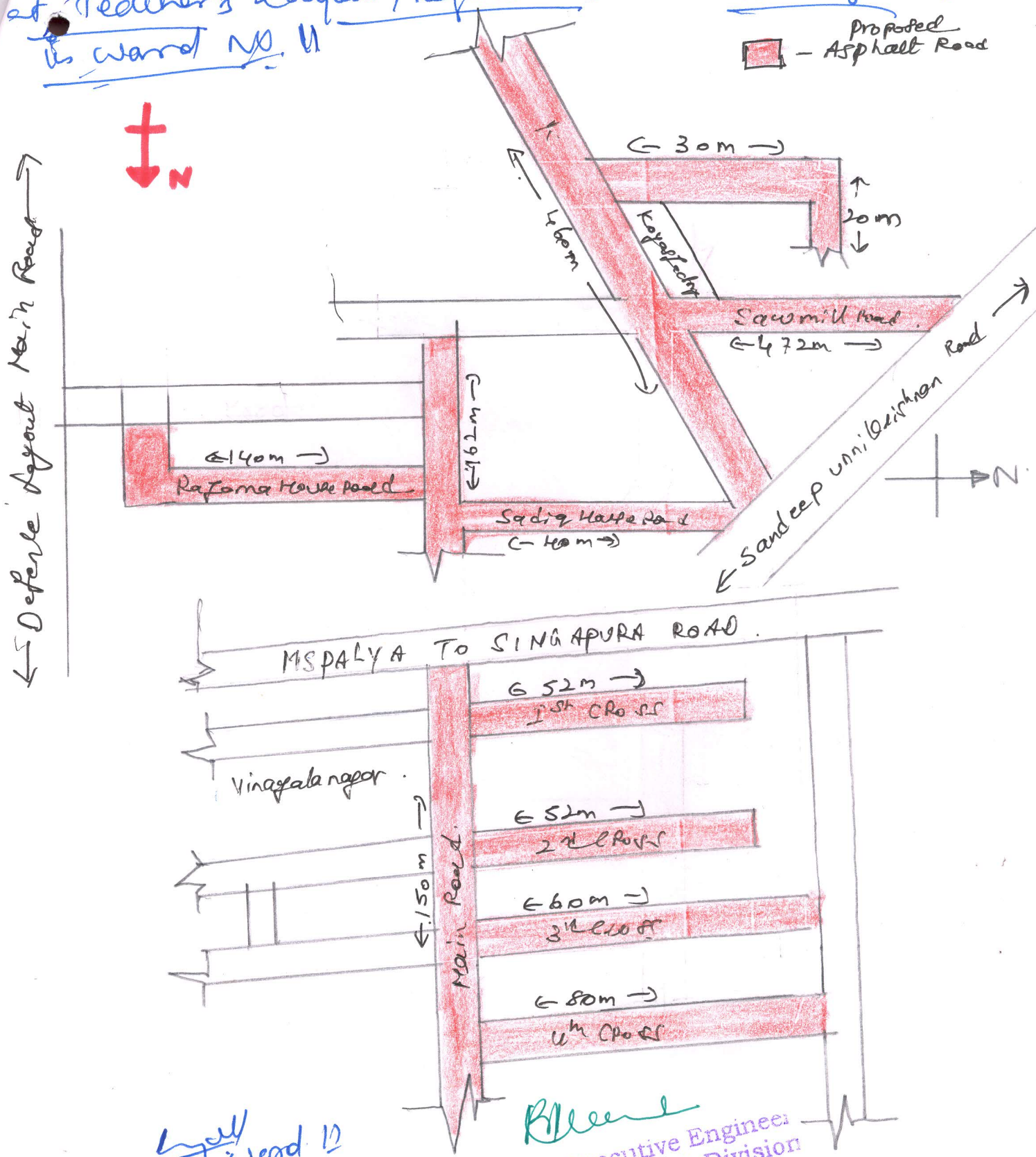
Technical Sanction
Accorded For 49.00 lakh Rs.
Head of A/C P3089
CER NO : 66 Dt: 21.8.15

TA to CE (YNK).

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

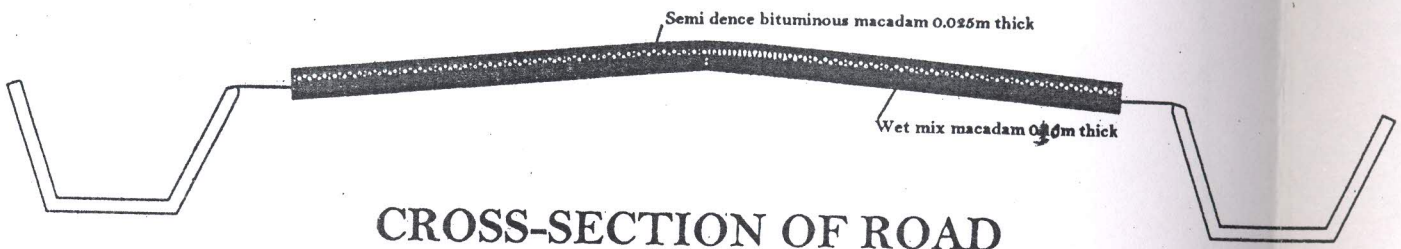
Name of work: Improvements to Roads & Drains at Teacher's Layout, Raghavendra Colony, Bdeg' Layout in Ward No. 11

(10)



Ward 11

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



CROSS-SECTION OF ROAD

INDEX

- Wet mix macadam
- Semi dence bituminous concret